SmartLog V5™ with Turnstile Installation, Operation and Maintenance

Made in the United States of America and Britain

Figure 1. EMIT 50777 SmartLog V5™ with Turnstile

Description

The EMIT 50777 SmartLog V5™ with EDS EDSUKTHH28 Half Height Turnstile verifies the functionality of an operator's wrist strap and footwear and controls access to the ESD Protected Area. The turnstile activates after the operator's wrist strap and/or footwear is determined to act as a path-to-ground. By touching the solid-state switch once, the SmartLog V5™ independently tests the resistance path limits of both the wrist strap and ESD footwear in less than 2 seconds. It may also test a worn ESD garment if it is used as part of personnel grounding path. Test results are electronically stored in the SmartLog V5™ and easily downloaded to a PC for logging records and evaluation. This product can be used as one of the tools to fulfill the ANSI/ESD S20.20 section 7.3 "Compliance Verification Plan."

See TB-6584 for more information on the patented* EMIT SmartLog V5™.

The EDS EDSUKTHH28 Half Height Turnstile is a bidirectional tripod swing turnstile. Both its cabinet and tripod rotors are composed of stainless steel. LED passage signs are located at both the entry and exit sides. A flashing green arrow indicates when to pass, and a red X indicates when the turnstile is closed.

The turnstile is configured to Fail-Safe Loss-of-Power Operation. Should loss of power occur, the turnstile's arms will unlock and rotate freely in both directions to allow operators to pass through.

The EMIT 50777 SmartLog V5™ with Turnstile has an input voltage of 220 VAC.

ESD Association Information

"Compliance verification should be performed prior to each use (daily, shift change, etc.). The accumulation of insulative materials may increase the foot grounder system resistance. If foot grounders are worn outside the ESD protected area testing for functionality before reentry to the ESD protected area should be considered." ESD SP9.2 APPENDIX B - Foot Grounder Usage Guidance

"Process monitoring (measurements) shall be conducted in accordance with a Compliance Verification Plan that identifies the technical requirements to be verified, the measurements limits and the frequency at which those verifications shall occur...Compliance verification records shall be established and maintained to provide evidence of conformity to the technical requirements.

The test equipment selected shall be capable of making the measurements defined in the Compliance Verification Plan." (ANSI/ESD S20.20) section 7.3

ANSI/ESD S20.20 Table 1 Flooring-Footwear Systems Technical Requirements Recommended Range "less than 3.5 x 10^7 ohms measured per ANSI/ESD STM 97.1."

"Typical test programs recommend that wrist straps that are used daily should be tested daily. However, if the products that are being produced are of such value that knowledge of a continuous, reliable ground is needed, and then continuous monitoring should be considered or even required." (ESD Handbook ESD TR 20.20 section 5.3.2.4.4)

*US Patents 6,078,875 and 6,809,522

EMIT - 3651 Walnut Avenue, Chino, CA 91710 • (909) 664-9980 • Website: DescoEMIT.com

© 2015 DESCO INDUSTRIES, INC.
Employee Owned

Packaging

1 SmartLog V5™ with Turnstile
1 Wall Mounting Bracket
1 Connection Cover
1 Dual Independent Foot Plate
2 Wall Mounting Anchors
2 Wall Mounting Screws, #10 x 1-1/2"
2 Turnstile Keys
1 Certificate of Calibration

Installation

Installing the Turnstile

A 220 VAC power line and Ethernet line are needed at the installation location of every SmartLog V5™ with Turnstile. Be sure to route these lines to the installation site prior to anchoring your turnstile.

See the attached EDS Operation and Maintenance Manual for instructions on anchoring and wiring the turnstile. Do not use the SmartLog V5™ until the turnstile is properly anchored and wired.

Installing the SmartLog V5™ to the Turnstile

See TB-6584 to learn more about the features and components of the SmartLog V5™. EMIT recommends making any adjustments to its clock or test configurations prior to deployment for operator use.

1. Disconnect the SmartLog V5 tester from the mounting bracket by removing the 4-40 pan head screw located on the left-hand side of the tester.
2. Open the turnstile's cover using the included keys. Set the power switch located on the power box to the ON position.
3. Route the Ethernet cable through the turnstile and SmartLog bracket.

   NOTE: Cat5e cable is recommended for Ethernet wiring. Cat6 cable may prove to be too rigid for most installations inside the SmartLog's mounting bracket.
4. Follow Figure 3 to learn where to connect the Ethernet cable on the SmartLog V5™.

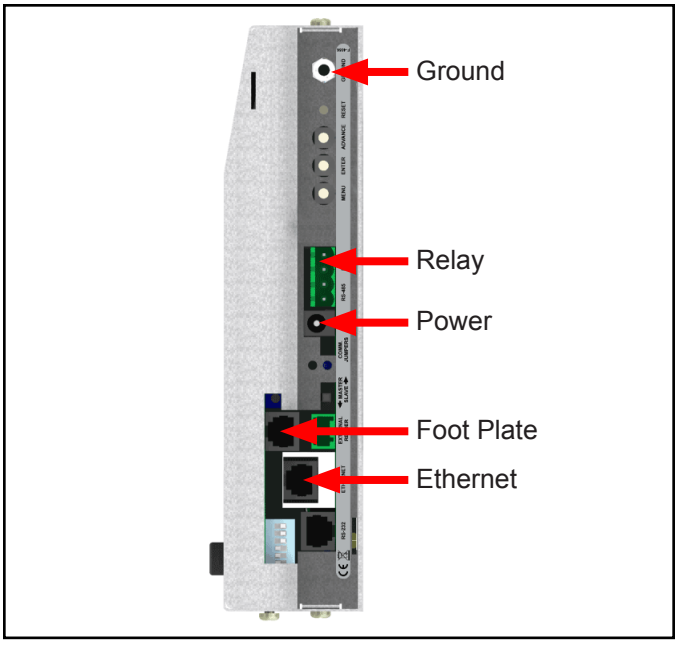

Figure 2. Connections to the SmartLog V5™ (right view, cover off)

5. Align the slots on the back of the SmartLog V5™ with the hooks on the turnstile bracket.

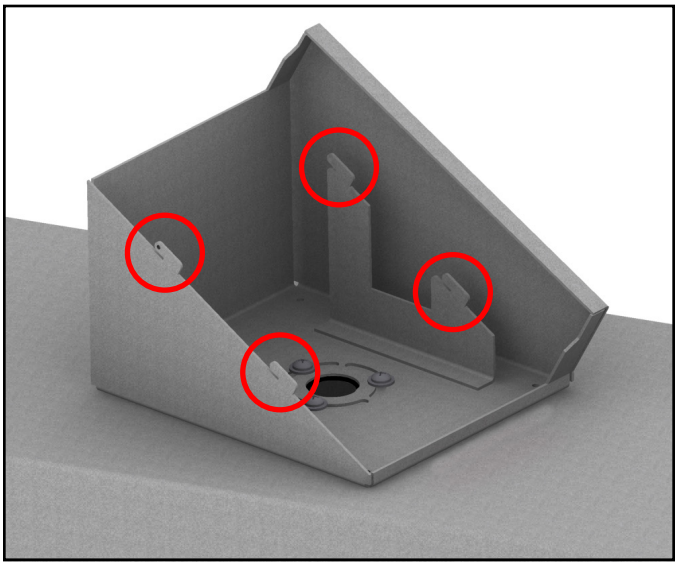

Figure 3. Locating the mounting hooks on the bracket

© 2015 DESCO INDUSTRIES, INC.
Employee Owned

6. Slide the SmartLog V5™ into the bracket from the top to bottom. Secure the SmartLog V5™ to the bracket by fastening the 4-40 screw to the left side of the tester.

Figure 4. Sliding the SmartLog V5™ into the bracket and securing it into place with the 4-40 screw

7. Locate the foot plate cable at the base of the turnstile and connect it to the Dual Independent Foot Plate. Place the foot plate at the base of the turnstile so operators can place their feet on it while performing tests at the turnstile's entrance.

Figure 5. Installing the Dual Independent Foot Plate

8. Complete the installation by establishing communication to the SmartLog V5 via the Ethernet cable. See the "Ethernet Setup" procedure in TB-6584 for more information.

Operation

NOTE: The SmartLog V5™ must first be programmed with the user ID table using the TEAM5 Software before being deployed for employee use, or the default test settings will be applied.

See the TEAM5 User Manual for more information.

1. Initiate the test procedure by identifying yourself to the SmartLog. This may be done using the keypad, barcode badge scanner or proximity badge reader (if supplied).
2. Follow the prompt on the SmartLog's display.
3. When performing a footwear test, be sure to place both feet on the dual foot plate (one foot per plate).

   When performing a wrist strap test, be sure to completely plug in the wrist cord into the tester's jack.
4. Press and hold the metal touch plate on the tester to perform the test. Hold your finger on the touch plate until the results of the test are displayed.

   If performing a wrist strap test, and the wrist strap status LEDs do not illuminate, verify that the wrist cord is correctly inserted into the tester.

Figure 6. Using the SmartLog V5™ with Turnstile

© 2015 DESCO INDUSTRIES, INC.
Employee Owned

5. The relay terminal will activate and unlock the turnstile if the defined tests are passed.
6. Pass through the turnstile. The turnstile will re-lock after one rotation.

   NOTE: The turnstile will remain unlocked until either the operator passes through or 15 seconds expire.

Calibration

Frequency of recalibration should be based on the critical nature of those ESD sensitive items handled and the risk of failure for the ESD protective equipment and materials. In general, EMIT recommends that calibration be performed annually.

Use the EMIT 50424 Limit Comparator to perform periodic testing (once every 6-12 months) of the SmartLog V5™. The Limit Comparator can be used on the shop floor within a few minutes virtually eliminating downtime, verifying that the tester is operating within tolerances.

See TB-6581 for more information.

Figure 7. EMIT 50424 Limit Comparator

© 2015 DESCO INDUSTRIES, INC.
Employee Owned

Specifications

SMARTLOG V5™ WITH TURNSTILE

Operating Voltage	220 VAC, 50/60 Hz
Operating Temperature	0 to 40°C (32°F to 104°F)
Dimensions (Crated)	47" x 31" x 54" (119cm x 78cm x 137cm)
Dimensions (Uncrated)	See Figure 8
Weight (Crated)	257 lbs (116.4 kg)
Weight (Uncrated)	135 lbs (61.4 kg)

SMARTLOG V5™ TESTER

Operating Voltage	100-240 VAC, 50/60 Hz
Operating Temperature	32°F to 104°F (0 to 40°C)
Dimensions	8.3" x 5.8" x 1.9" (21.1cm x 14.7cm x 4.8cm)
Weight	2.0 lbs (0.9 kg)

DUAL INDEPENDENT FOOT PLATE

Dimensions	14.0" x 16.0" x 0.9" (35.6cm x 40.1cm x 2.3cm)
Weight	7.5 lbs (3.4 kg)

TURNSTILE CERTIFICATIONS

- CE

Certificates are available upon request to EMIT Customer Service.

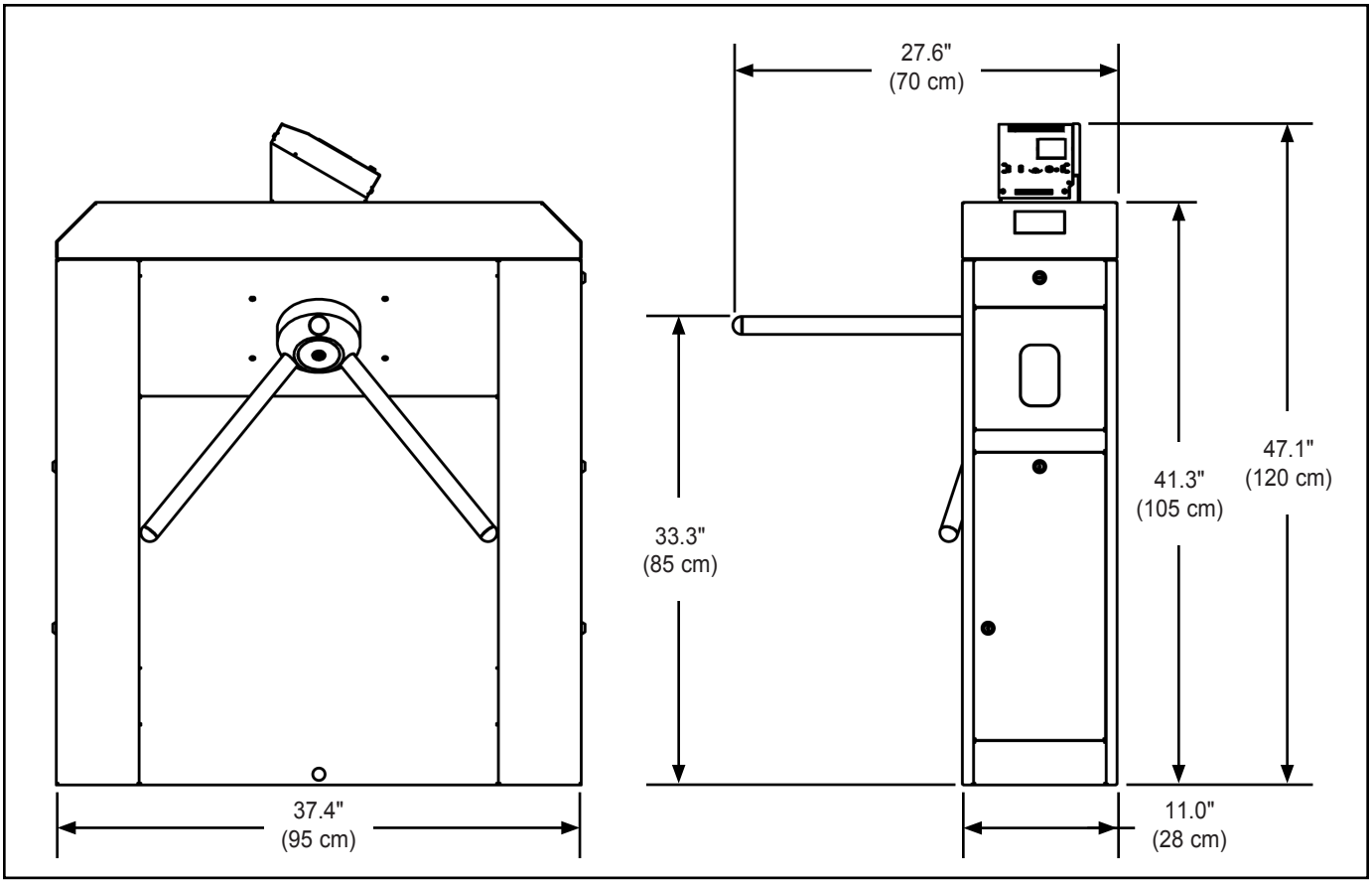

Figure 8. Dimensions of the EMIT 50777 SmartLog V5™ Turnstile

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See EMIT's Warranty -
http://emit.descoindustries.com/Warranty.aspx

EMIT - 3651 Walnut Avenue, Chino, CA 91710 • (909) 664-9980 • Website: DescoEMIT.com

© 2015 DESCO INDUSTRIES, INC.
Employee Owned

EDSUKTHH28 Turnstile

Operation and Maintenance Manual

EDSUK reserves the right to make changes at any time without any notice. All rights reserved.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

Before You Start	3
EDSUKTHH28 Turnstile System Technical Specifications	5
Dimensions:	6
Modules	6
EDSUKTHH28_A Turnstile Block Diagram:	7
BM32 Turnstile control module:	7
Keypad:	7
Programming:	8
Input and Output Ports:	9
BM 29 Indicator Cards	12
Other Equipments	13
Turnstile Electrical Circuit Diagram:	13
EDSUKTHH28 Turnstile Mechanic Mounting Instructions	13
Mounting Drawing for EDSUKTHH28	13
EDSUKTHH28 Material List	13
EDSUKTHH28 Turnstile Maintenance Instructions	14
Turnstile Troubleshooting	14

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

Before You Start

Thank you for purchasing EDSUKTHH28 Electro-mechanic Turnstile. Please, carefully read the instructions contained in this manual and keep the manual for future references.

TURNSTILE SAFETY INSTRUCTIONS

- It is recommended to read all safety and maintenance instructions before installing and using the turnstile.
- Read the manual, before operating the turnstile.
- Do not open the turnstile, due to safety precautions.
- Any repairs must be done by authorized services only. Modifications made by user may result in danger for the turnstile and people.
- Do not operate damaged turnstiles and call an authorized service immediately.
- Comply with the power and voltage values specified in the technical specifications of turnstile.
- Comply with the operating temperature range specified in the technical specifications of turnstile.
- Check the power supply and control the card connections before re-energizing the turnstile afterwards any maintenance or damage.
- Use certificated spare parts and accessories approved by EDSUK.
- If any problem, switch off the electrical connections of the turnstile and call EDSUK
- During the cleaning and maintenance, cut off the electrical connections. Otherwise damage to the parts may result.
- Use wet rag for cleaning.
- Keep the turnstile away from over heated or fire environment. Over heat may result in a damage to the turnstile.
- Do not use the turnstile in high magnetic areas.
- Do not expose the turnstile to excessive water in order to prevent any penetration.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

TURNSTILE USAGE INSTRUCTIONS

- The turnstile is designed so as to allow one person to pass each time and more than one person mustn't try to pass at the same time.
- In case of not functioning properly, avoid actions that may result in damage to the turnstile.
- In case of any malfunctioning and in order to avoid further damage, T he system should be switched off and not used.
- Substances harmful to turnstile mustn't be used for cleaning.
- The manufacturer will not accept any responsibility for any inquiry or damage resulting from incompliance with the security and safety instructions indicated above.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

EDSUKTHH28 Turnstile System Technical Specifications	
Power - 220 V AC or 24 V DC 30W	Operating Voltage - 24 V DC +- %20
Operating Temp -20 C^0 - + 70 C^0	Dimensions - 280x950x1050 mm Weight 75 kg
Body Features - Waterproof body with 1.5mm 304 grade stainless steel	
Outdoor Use - Turnstiles are designed for outdoor use.	
Tripod Block - With controlled tripod arms positioned with at 120^0 degrees	
Arms - Polished stainless pipe, Ø32x2mm. Each arm can be demounted.	
Tripod Lock - It is locked with 24DC solenoids, locks when the solenoids are pulled. In emergency, the system is shut down and turnstiles provide free passing in both directions.	
Motion Control - When the cycle starts to one direction, the reverse is blocked and after a half turn the rest of the cycle is completed, automatically and smoothly by a hydraulic shock absorber.	
Optional Accessories Electronic control unit, Remote unit, Button unit, Modular Platform	
Control - It is commanded by TTL, CMOS, and Dry Contact for pass triggering. Additionally, it can be commanded by RS 232, RS422, and RS485 through PC with BM33 module. It is possible to command additional warning/caution devices that can be mounted on Turnstile through 3 extra dry contact relays when used with BM33 module. It is possible to use with all kinds of Access control units.	
System - Micro Controller was designed based on Modular structure. Turnstile is a combination of the modules that fit for your requirements. Thereby, in comparison with complicated systems, it eliminates the additional costs to be paid for the modules you do not require as well as avoiding the defects from the parts which do not belong to system and the extra power consumption used by them. When used with PC, if required, it is possible to follow how many passes were made through the turnstile. It was designed so as to operate bidirectional. If required, it can be transformed so as to operate bidirectional or to a free turnstile (only with setting).	
Emergency Mode - When the power supply of the turnstile is cut, passing becomes free in both directions. When the free button is pressed, passing becomes free in both directions. In models with retractable arms, when the panic button is pressed, arms drop down automatically and passageway is opened entirely.	
Passage Signs - There are indicators with two-colored lights on both sides at entry and exit.	
Indicators - On stand by state, it indicates that the turnstile is ready with continuous "green arrow". Flashing green arrow in passing direction indicates free passing and continuous red “X” sign in opposite direction indicates that passing though the opposite direction is opened and waiting is required. An audio alarm indicates that passing is opened at the time of passing. Audio alarm will accelerate and indicate lapse of time close to end of the time given for passing.	
Quality System - Manufacture process of our turnstiles is assured under ISO-9001-2000 quality system. Compliance with relevant EN, DIN and TSE standards are based on for all kinds of product used in production.	

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

Dimensions:

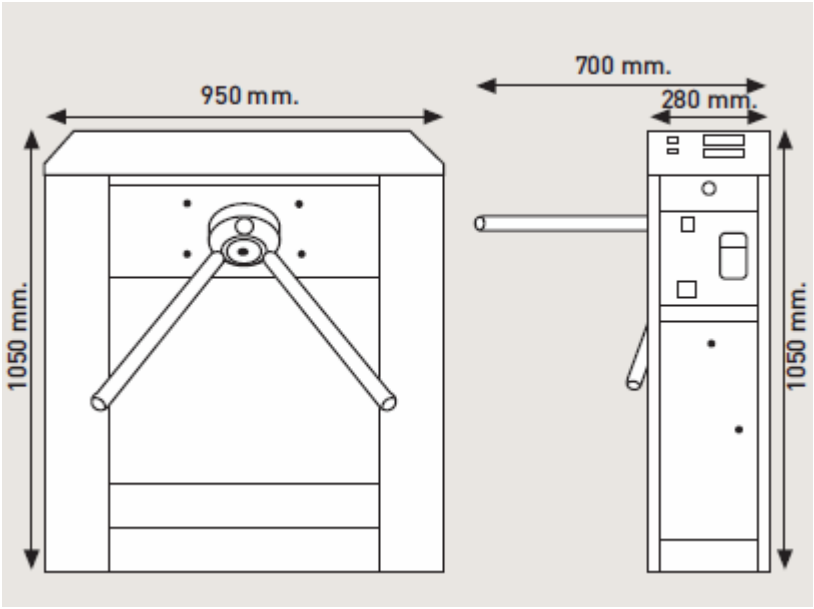

Figure 1. Dimensions of EDSUKTHH28 Turnstile

Modules

EDSUKTHH28 Turnstile Block Diagram:

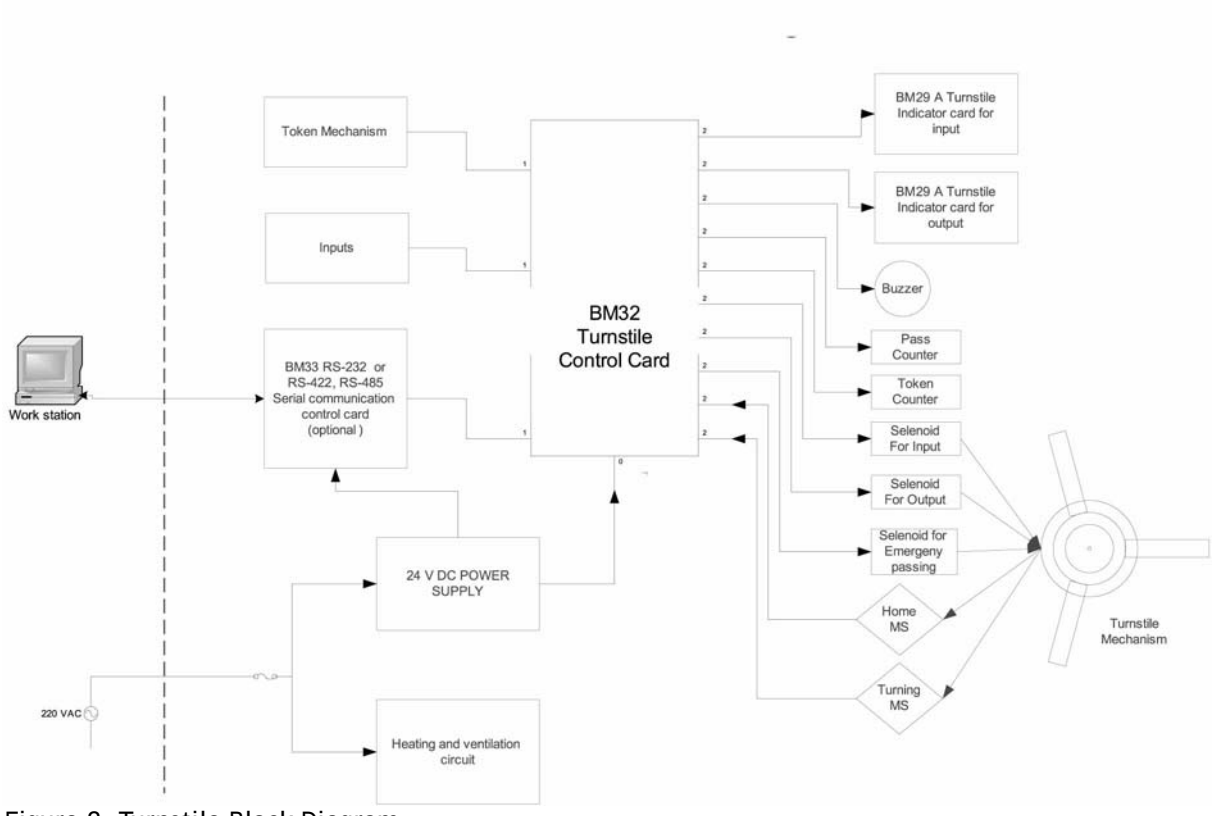

Figure 2. Turnstile Block Diagram

EDSUK reserves the right to make changes at any time without any notice. All rights reserved.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

BM32 Turnstile control module:
Manufactured with reliable 8051 micro-controller technology, it has two main modes as operating and programming. Operating mode can be programmed according to the list below.

Keypad:
Input, output and mode keys are available on BM 32 card.
Programming mode or operating mode can be selected by the mode key. Input and output keys provide entry and exit right while the turnstile is in "Operating mode".
In programming mode, it is used for adjustment of turnstile as indicated the table above.

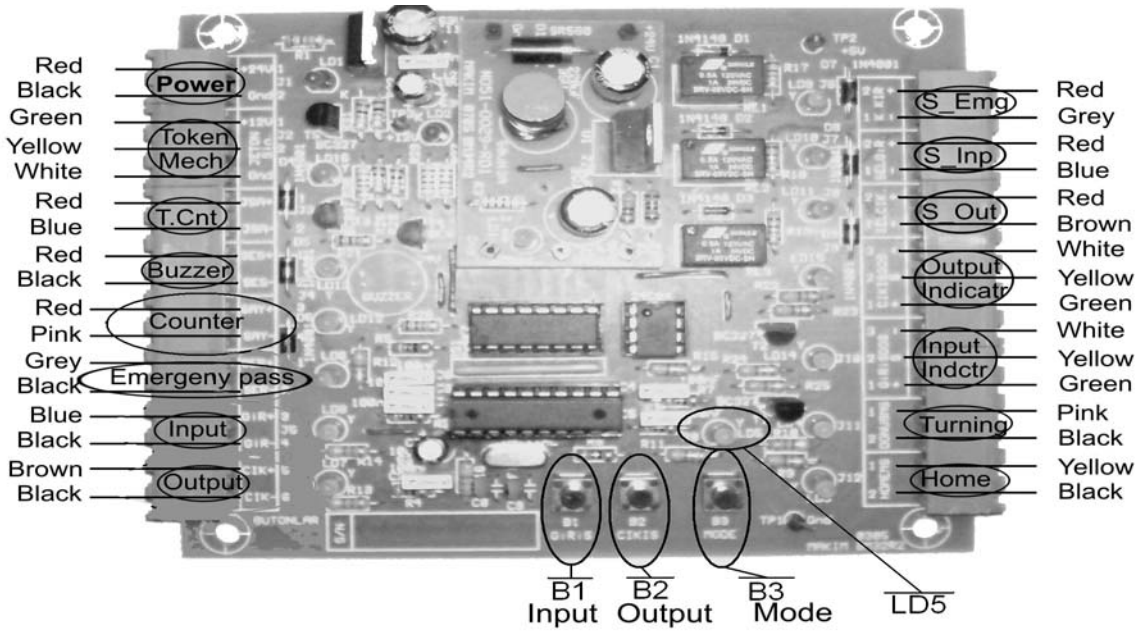

Figure 3. BM32 Card Connectors, Cable Colors, and Keypad

Operating Mode	Input	Output	Required key combination for programming
0	Locked	Locked	Press M and simultaneously press G or C until input and output displays turn to red (until LD14 and LD15 LEDs are turned off)
The following modes are written assuming that the operating mode of the turnstile is 0.			
1	Controlled Passing	Controlled Passing	M+G+G+C+C+M
2	Locked	Controlled Passing	M+C+C+M
3	Controlled Passing	Locked	M+G+G+M
4	Free	Controlled Passing	M+G+C+C+M
5	Controlled Passing	Free	M+G+G+C+M
6	Locked	Free	M+C+M
7	Free	Locked	M+G+M
9	Free	Free	M+G+C+M

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

Programming:
For entering and exiting to programming mode, Mode Key is used. In Programming Mode:
- Entry key changes the passing right among “Free”, “Controlled passing” and “Locked”, respectively.
- Exit key, changes the passing right among “Free”, “Controlled passing” and “Locked” respectively.
- In “Free” state, indicator is green, and no buzzer audio.
- “Controlled Passing” state, indicator is green and buzzer alarms.
- In “Locked” state the indicator is red.
- Use mode Key to exit from programming mode.

When not in programming mode:
- Entry key gives entry right,
- Exit key gives exit right.

Input and Output Ports:
+24 VDC supply:
It connects via J1 connector. All voltage levels necessary for circuit is obtained from this source.

Token Signal and Token Counter Ports:
Token mechanism connects via J2 connector. J2 provides 12 V supply voltage required for Token mechanism. The “Token was dropped” signal which is produced by the mechanism is taken from this connector.

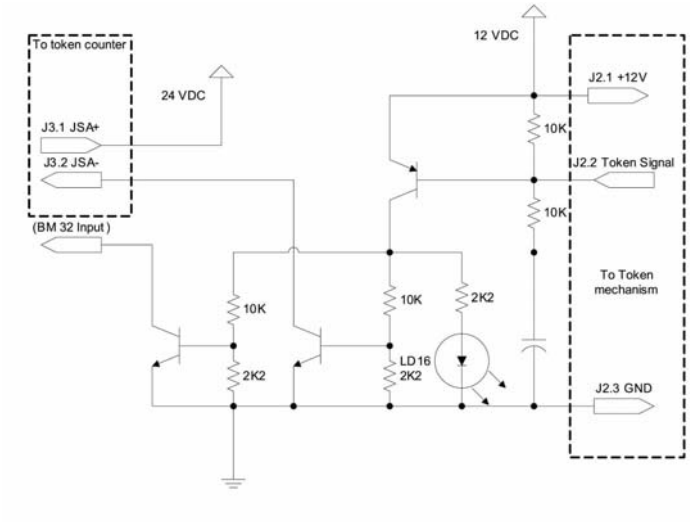

Figure 4. Token Mechanism and Token Counter Connection Equivalent Circuit

It produces one “passing right to entry side” signal in return for “token was dropped” signal and the signal required for increasing the value on the token counter by one level.
Avoid drawing current more than 0 mA instantly and 100 mA continuously from the
J3.2 JSA connector.

EDSUK reserves the right to make changes at any time without any notice. All rights reserved.
© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

“Free”, “Authorize entry” and “Authorize exit” Inputs:

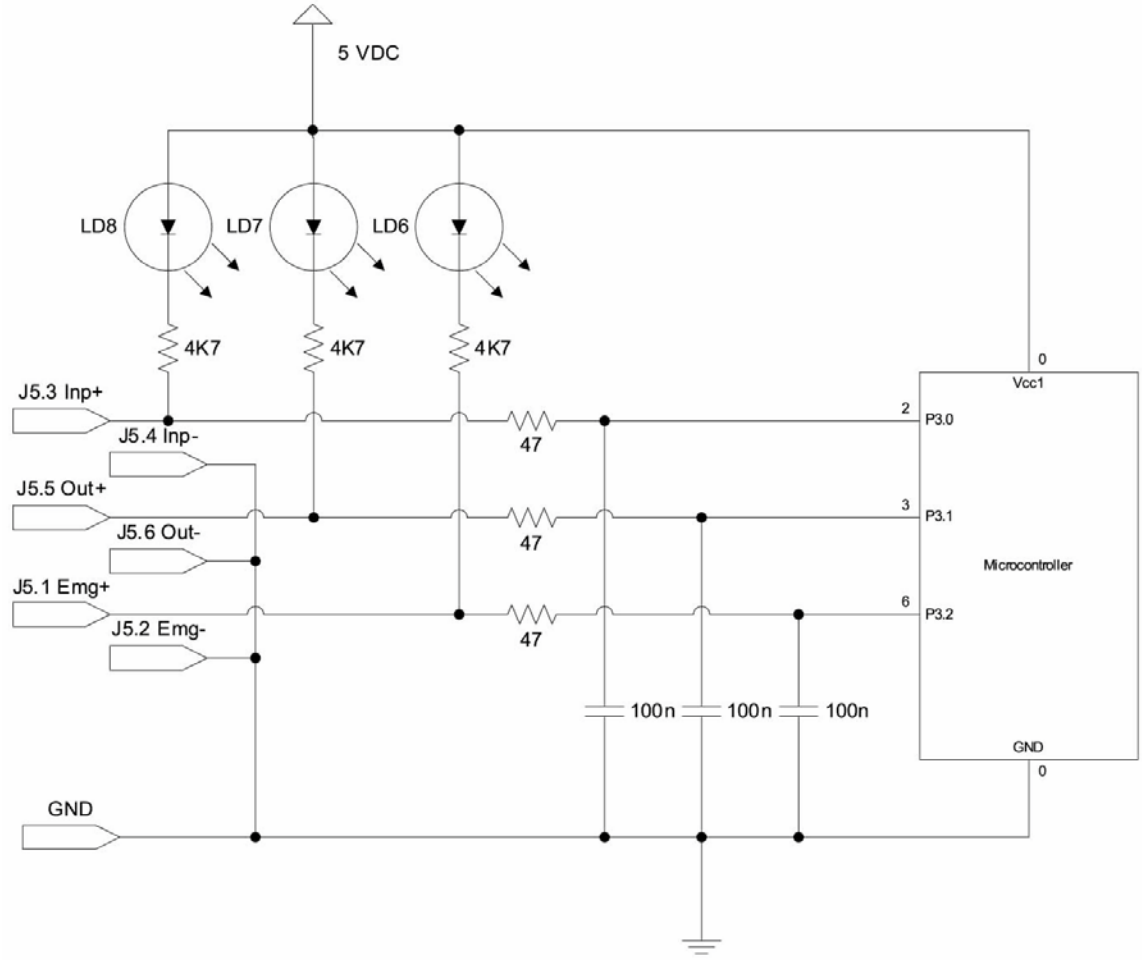

Figure 5. Input Output and Free Ports Equivalent Circuit

As indicated in the diagram, turning the ports to low position or to GND by dry contact is enough to trigger the input.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

Home and Turn Microswitch Inputs:

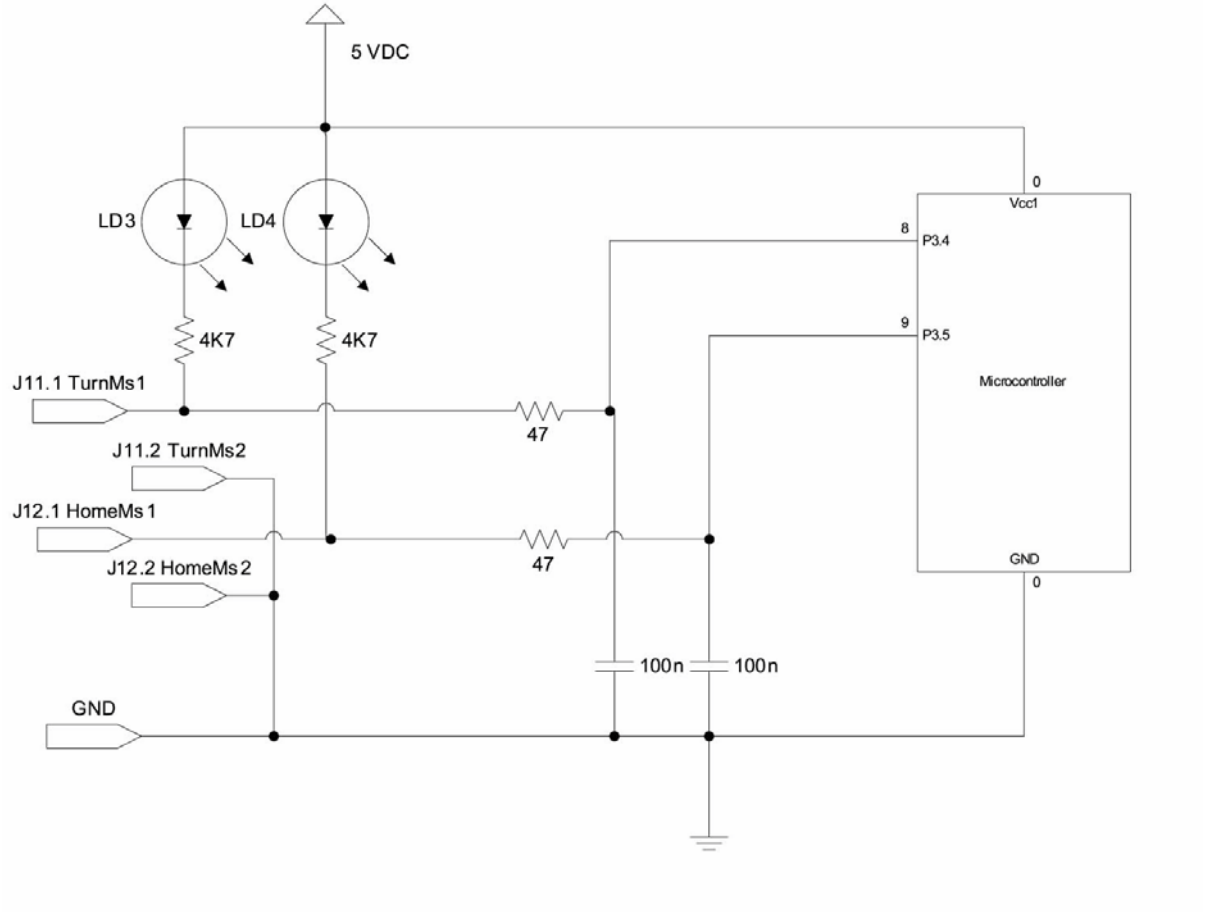

Figure 6. Home and Turn Microswitches Connection Equivalent Circuit

NO contacts of the Microswitches on the mechanism are connected via BM 32 card's
TurnMS and HomeMS inputs.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

"Passing Counter", "Audio" and "Indicator" Control Outputs:

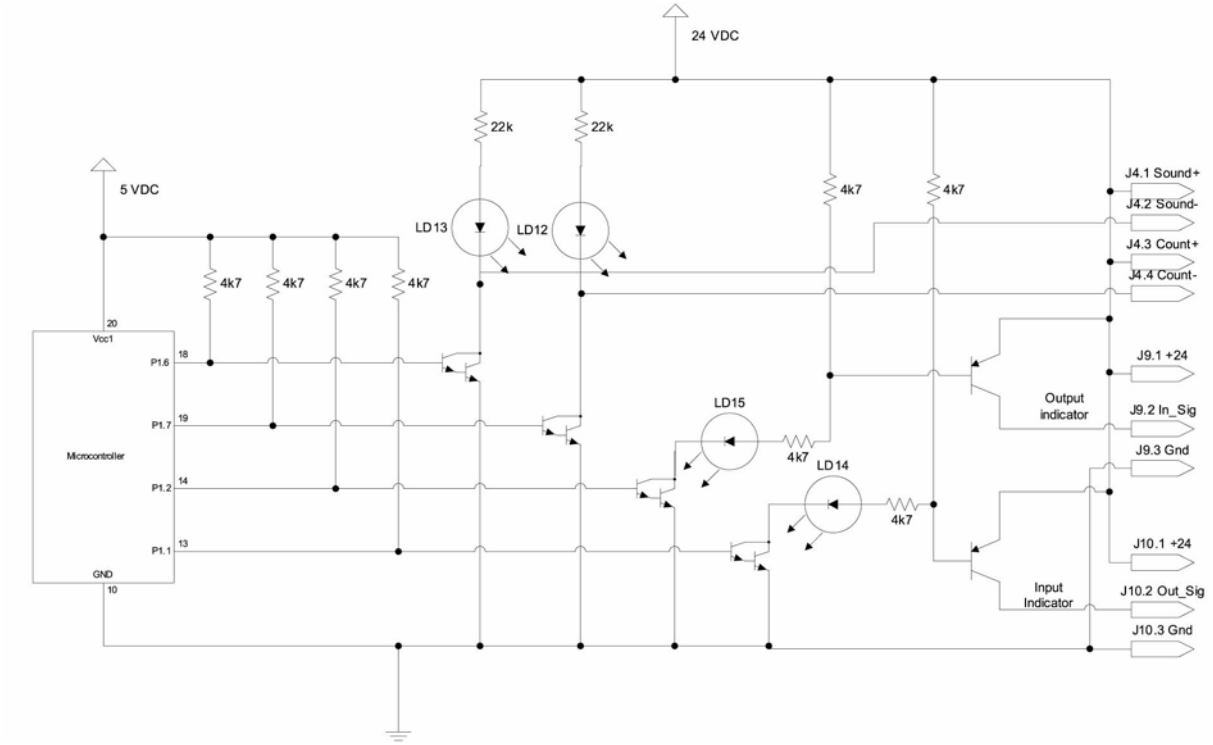

Figure 7. Passing Counter, Audio and Indicator Ports Equivalent Circuit

Passing counter, audio, and indicators are open collector type outputs.

"Solenoid" Control Outputs:

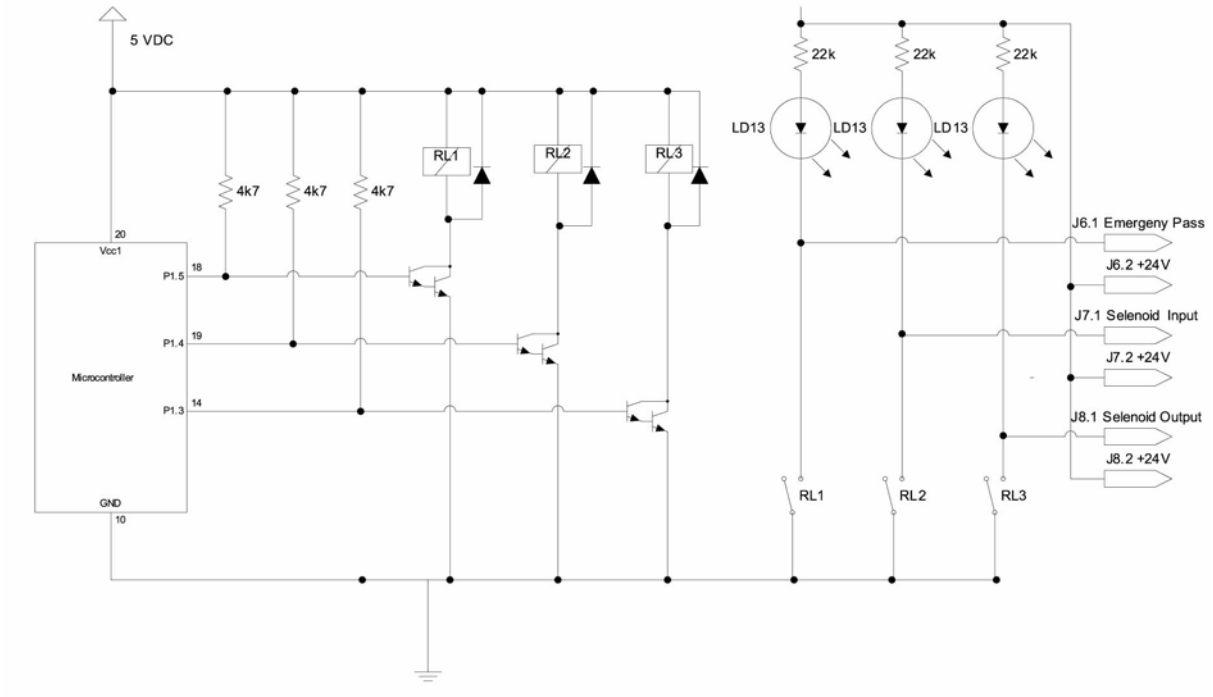

Figure 8. Solenoid Ports Equivalent Circuit

Solenoid outputs are dry contact and normally in open relay type.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

BM 29 Indicator Cards

Connector includes 24 V Supply pin, GND pin, and Signal pin. The green allow or red allow flashes according to the information coming from the Signal pin under power supply.

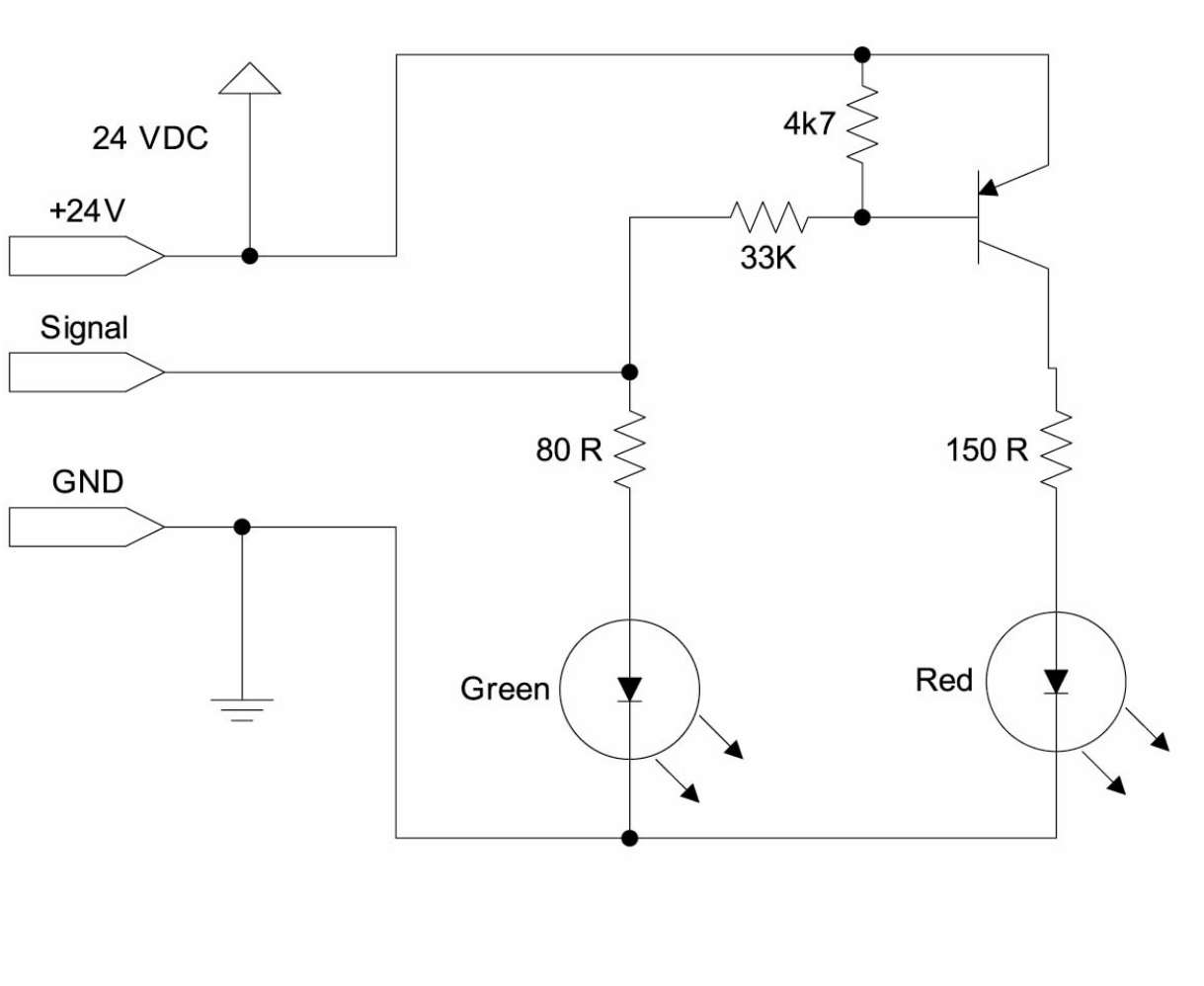

Figure 9. BM29 Equivalent Diagram

Other Equipments

Solenoids

In T-Mek A models, Solenoids draw 300 mA continuous (Constant) current with 24 V supply.
In T-Mek B models Solenoids draw 1500 mA continuous (constant) current with 24 V supply.

Counters:

24 V Mechanic or Electronic Counter can be used.

Power Supply:

Model Mean Well trade mark 25 W, 24V, S-25-24 power supply is used.
On the right: The Picture of the power supply

EDSUK reserves the right to make changes at any time without any notice. All rights reserved.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

Heating and Air Circulation Circuit:
For air circulation 90-90 fan is used. It operates when the temperature of the turnstile heated over 35 °C. For heating, 200 W heater is used. When the internal temperature of turnstile is below 10°C, it starts to operate automatically with fan. The heating and air circulation circuits can be set by thermostat, it can be set to different degrees depends on demand.

Fuse: - Protected by 2 A automatic fuse.

Turnstile Electrical Circuit Diagram:

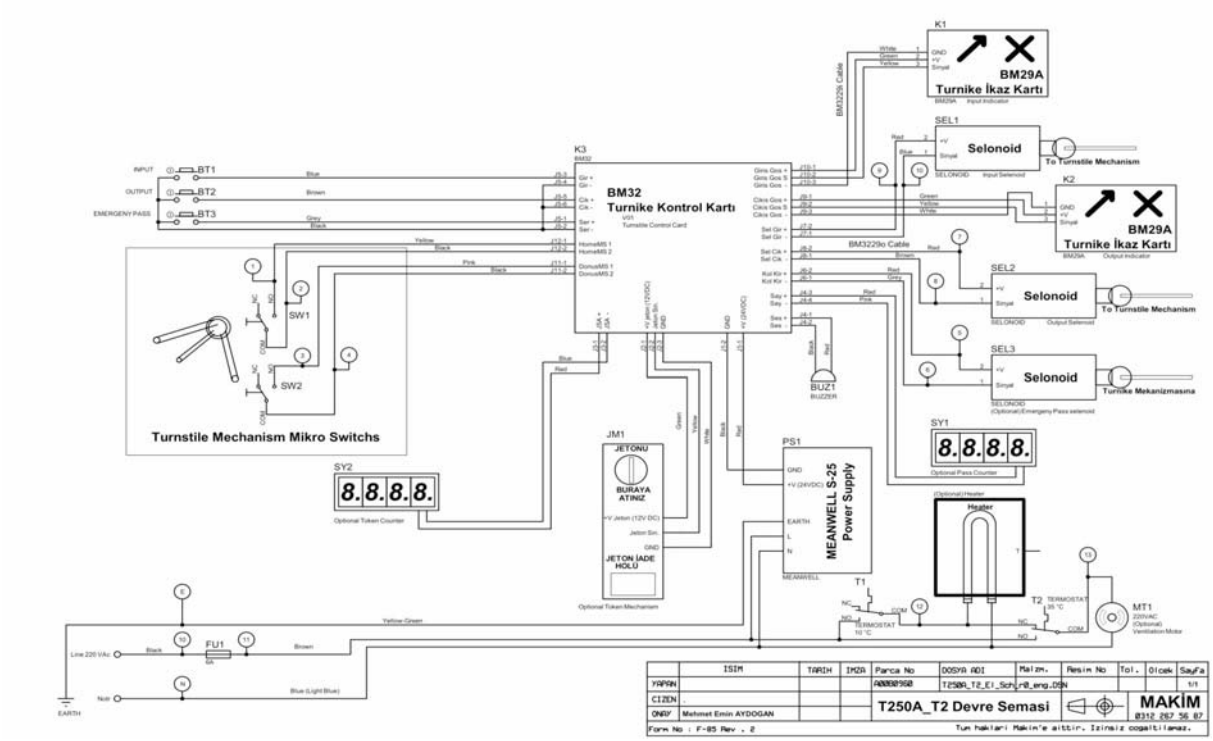

Figure 10. Circuit Diagram

EDSUKTHH28 Turnstile Mechanic Mounting Instructions

1. Select a proper location so as not to obstruct turnstile's operation.
2. Check the structure of the ground of installation site to ensure the necessary stability requirements.
3. Mark the hole places on the ground in which the turnstile will be mounted.
4. Drill the marked mounting holes by Ø10 drill bit and clean the dust inside the hole by the help of the air.
5. Fix the steel anchors to the drilled holes. If the ground is not strong, fix the steel anchors after using chemical soil mixture. (Wait 20 minutes for hardening of chemical soil mixture)
6. Pass the power and data cables which are prepared before through the hole on mounting plate.
7. Put the mounting plate on the steel anchors and after putting the washer and nuts, fix the ground.
8. After putting the turnstile on the fixed mounting frames, screw the bolts connecting the turnstile and mounting plate to each other.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

Mounting Drawing for EDSUKTHH28

Figure 11. Mounting Drawing for EDSUKTHH28

EDSUKTHH28 Material List

M10x85 Steel Anchor	M10x20 Inbus Bolt	M10 Washer
4 pieces	4 pieces	4 pieces

EDSUKTHH28 Turnstile Maintenance Instructions

1. The clothing of the turnstile must be cleaned with wet rag.
2. The connection screws of turnstile should be visually checked every 6 months.
3. Turnstile arm connection must be visually checked.

NOTE: Turnstile must have maintenance service by authorized service or distributors periodically. In case it is not able to contact with an authorized service or dealer, get into contact with producer firm and obtain information on periodical maintenance.

EDSUKTHH28 Electro mechanic Turnstile		*Time*	*Operation*
General	Turnstile Arm Torque Bolt	12 months	Control
	Ground Fixing Bolts	12 months	Control
Turnstile Mechanism	Solenoids	12 months	Control + Cleaning
	Springs	12 months	Control
	Hydraulic Shock Absorber	12 months	Control
	Hydraulic Shock Absorber	36 months	Renewing the oil
	Mechanism Connection Cable	12 months	Control
	Components	12 months	Control + Lubrication
Electronic Card	Electrical Connections	12 months	Control
	Indicator Cards	12 months	Control + Cleaning
	Electronic Cards	12 months	Control

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

Turnstile Troubleshooting

Fault	Reasons	Solution
Electricity is on, the arms cannot be locked, the displays are turned off, and the turnstile is functionless.	1.Power supply may be off or broken. 2.Electrical fuse could be blown out.	1. Check whether the electrical cable is plugged in. 2. Change power supply if needed.
After one pass, the turnstile is not locked and it allows multiple passes.	1.Direction sensor micro switches could be broken. 2.Electronic card could be broken.	1.Replace micro switches. 2. Replace electronic card.
Although indicators and buzzer work, the turnstile does not allow pass.	1.There may be a cable preventing the solenoid to open. 2. Electronic card could be broken. 3. Solenoid could be broken or there may be connection defects.	1. The problematic cable is fixed. 2. Replace electronic card. 3. Replace solenoid and also check the connections.
Electricity is on the arms are turning freely.	1.Solenoid could be broken or there may be connection defects. 2.Electronic card could be broken.	1. Replace solenoid and also check the connections. 2. Replace electronic card.
The turnstile does not send info after pass.	1.Cycle sensor micro switches could be broken or there may be connection defects. 2. There may be defects in the cable transferring data. 3.Electronic card could be broken.	1.Replace microswitches and check the connections. 2.Ckeck the cables carrying data. 3. Replace electronic card.
Turnstile arms are giving noise due to friction while turning.	The oil within the rotor wheels could be dirty or runs out.	Lubricate the rotor wheels.
In winter or summer turnstiles do not operate smoothly.	Due to the changes in temperature, the damper oil may not work properly.	Choose the wanted calibration smoothness using the cap screw behind the dumper.

EDSUK reserves the right to make changes at any time without any notice. All rights reserved.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533

Arms remain crosswise after pass and they do not return to initial position.	1.The spring in the mechanism may be loosen up. 2.Hydraulic damper or its calibration may be at fault.	1.The spring is adjusted or replaced. 2. Hydraulic damper setting is adjusted with the help of the cap screw behind the dumper or replaced.
Although the pass signal is given, the turnstile does not allow passing.	1.There may be problems in the signal sender (card reader, remote control, button) or its connections. 2. Electronic card could be broken. 3.Solenoid could be broken. 4.Lock pins could malfunction.	1.Replace the signal sender and check the connections. 2. Replace electronic card. 3.Replace the solenoid.
The turnstile allows multiple passes continuously.	1.Solenoid could be broken or its cables may be unplugged. 2.Lock pins could malfunction. 3. The turnstile could be set to free Mode to operate in one direction.	1.Replace the solenoid and check the cables. 2.Set the turnstile to the wanted Mode.

EDSUK reserves the right to make changes at any time without any notice. All rights reserved.

© Copyright EDS (Electrical-Data-Security) Ltd *The* Service Provider
www.edsuk.com Tel. 0870 735 5050 Fax 0870 735 5533